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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 325.0164PCT	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/				
International application No.	International filing date (day/mor	ıth/year)	Priority date (day/month/year)		
PCT/US02/38552	04 December 2002 (04.12.2002)				
International Patent Classification (IPC)					
	7/12. and US Cl.: 196/11, 132,141;	202/158, 160;	203/2, 3, 99, DIG.19, 100; 208/347, 351,		
Applicant					
FLUOR CORPORATION					
This international preliming Examining Authority and	nary examination report has bee is transmitted to the applicant a	n prepared by ccording to Ar	this International Preliminary ticle 36.		
2. This REPORT consists of	a total of $\frac{2}{2}$ sheets, including	this cover shee	et.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of	a total of <u>3</u> sheets.		-		
3. This report contains indicate	ations relating to the following	items:			
I Basis of the rep	ort				
II Priority					
III Non-establishm	ent of report with regard to nov	elty, inventive	step and industrial applicability		
IV Lack of unity o		,	· · · · · · · · · · · · · · · · · · ·		
	nent under Article 35(2) with re	acord to novelt	v inventive etan er industriel		
2_3	tations and explanations suppor	ting such states	ment		
VI Certain docume	ents cited	_			
VII Certain defects					
VIII Certain observations on the international application					
Date of submission of the demand	Date	of completion	of this report		
		Date of completion of this report			
19 May 2003 (19.05.2003)		31 January 2005 (31.01.2005)			
Name and mailing address of the IPEA/ Mail Stop PCT, Atm: IPEA/US	US Autho	rized officer	DEBORAH A. THOMAS		
Commissioner for Patents P.O. Box 1450	Virgi	inia Manoharan	PARALEGAL SPECIALIST GROUP 1300 O 1100		
Alexandria, Virginia 22313-1450		hone No. 571-2			
Facsimile No. (703) 305-3230 Telephone No. 5/1-2/2-1/00 Form PCT/IPEA/409 (cover sheet)(July 1998)					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US02/38552	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-12 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of .
	X	the claims:
	الحب	pages NONE , as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE, filed with the demand pages 13-15, filed with the letter of 08 December 2004 (08.12.2004)
		pages 13-13 , thet with the letter of 00 December 2004 (00.12.2004)
	\boxtimes	the drawings:
		pages 1, as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
	لــا	the sequence listing part of the description: pages NONE, as originally filed
		pages NONE, filed with the demand
_		pages NONE , filed with the letter of
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	the elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
l		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	inter	national preliminary examination was carried out on the basis of the sequence listing:
	\vdash	contained in the international application in printed form.
	H	filed together with the international application in computer readable form.
	H	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	Ш	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		
٥.	لبسا	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
uus	: repoi	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in rt as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US02/38552

1. STATEMENT Novelty (N) Claims 1-20 Claims 5-10 and 15-20 TES Claims 1-4 and 11-14 NO Industrial Applicability (IA) Claims 1-20 Claims 1-20 Claims 1-20 Claims 1-20 YES Claims 1-4 and 11-14 NO 2. CITATIONS AND EXPLANATIONS Claims 1-4 and 11-14 lack an inventive step under PCT Article 33(3) as being obvious over SHINSKEY in view of TRAGUT et al. SHINSKEY does not positively disclose a divided wall column that receives a feed comprising at least a first component, a second component and a third component as claimed in claim 1; and the method thereof as claimed. See columns 5-12. However, said divided wall column for reating a three-component feed is a known expediency in the art as shown at Fig. 1 of the TRAGUT et al reference. It would have been obvious to one of skill in the art, at the time the invention was made, to use a divided wall column in the manner as taughts by TRAGUT et al in the apparatus and process or method of SHINSKEY hasmuch as TRAGUT et al suggests the alternoses of one over the other See Figs. 2A-4D(non-divided column) and Fig. 1(a divided column) for treatment of the same three-components feed. Claims 5-10 and 15-20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed apparatus and method. Claims 1-20 have industrial applicability under PCT Articles 33(4) because the subject matter claimed can be made or used in industry. NONE	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Inventive Step (IS) Claims C	1. STATEMENT					
Inventive Step (IS) Claims 5-10 and 15-20 Claims 1-4 and 11-14 NO Industrial Applicability (IA) Claims 1-20 Claims 1-20 Claims NONE Claims NONE Claims 1-4 and 11-14 lack an inventive step under PCT Article 33(3) as being obvious over SHINSKEY in view of TRAGUT et al. SHINSKEY does not positively disclose a divided wall column that receives a feed comprising at least a first component, a second component and a third component as claimed in claim 1; and the method thereof as claimed in claim 11, but otherwise discloses all the features of the apparatus; and the method thereof as claimed. See columns 5-12, However, said divided wall column for treating a three-component feed is a known expediency in the art as shown at Fig. 1 of the TRAGUT et al reference. It would have been obvious to one of skill in the art, at the time the invention was made, to use a divided wall column in the manner as taught by TRAGUT et al in the apparatus and process or method of SHINSKEY inasmuch as TRAGUT et al suggests the alternativeness of one over the other See Figs. 2A-4D(non-divided column) and Fig. 1(a divided column) for treatment of the same three-components feed. Claims 5-10 and 15-20 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed apparatus and method. Claims 1-20 have industrial applicability under PCT Articles 33(4) because the subject matter claimed can be made or used in industry.	Novelty (N)	Claims 1-20	YES			
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Form PCT/IPEA/409 (Box V) (July 1998)	Form PCT/TPFA/400 (Boy 10 /July 1009)	•				